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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,726 08/13/2003		08/13/2003	Itzhak Bentwich	06087.0200.CNUS05	1725
22930	7590	03/14/2006		EXAM	INER
HOWRE	Y LLP		DEJONG, ERIC S		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Amelia di am Na	A 12 44 - 3	
	Application No.	Applicant(s)	
Office Action Comments	10/604,726	BENTWICH, ITZHAK	
Office Action Summary	Examiner	Art Unit	
	Eric S. DeJong	1631	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on 10 J This action is FINAL. Since this application is in condition for allowards closed in accordance with the practice under E 	s action is non-final. nce except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-16 are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accompany applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	wn from consideration. election requirement. er. cepted or b) □ objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Is have been received in Applicat Inity documents have been receive U (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

Art Unit: 1631

DETAILED ACTION

Notice to Comply with Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR §§1.821(a)(1) and (a)(2). See, for example, the sequences listed in Figures 21A, 22A, 23A, and paragraph 0123 of the instant specification. The requirements of 37 CFR §§1.821 through 1.825 requires the submission of a computer readable form sequence listing, a paper copy for the specification, a statement under 37 CFR §§1.821(f) and (g), and SEQ ID Nos cited along with each sequence listed in the specification or Figures.

The submission of a computer readable form (CRF), submitted by applicants on 01/10/2005, for sequences disclosed in paragraph 0123 of the instant specification is acknowledged, however the CRF does not contain a listing for the sequences disclosed in Figures 21A, 22A, and 23A. Further, the specification does not contain SEQ ID Nos cited along with each sequence in the specification or Figures for any sequence disclosed in the instant application.

Applicants are also reminded that SEQ ID Nos are not required in the Figures per se, however, the corresponding SEQ ID Nos then are required in the Brief Description of the Drawings section in the specification. Applicants are also reminded that a CD-ROM sequence listing submission may replace the paper and computer readable form sequence listing copies. Applicant(s) are given the same response time regarding this failure to comply as that set forth to this Office action. Failure to respond to this

requirement may result in abandonment of the instant application or notice of a failure to fully respond to this Office action.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, 13, 14, and 16, drawn to a bioinformatically detectable novel gene, a vector comprising said novel gene, a probe comprising said novel gene, and a vector inserter comprising said probe and a gene expression detector, classified in class 536, subclass 24.5. A further sequence election and species election identified below are also required if this group is elected.
- II. Claims 11 and 12, drawn to a method of selectively inhibiting translation of at least one gene, classified in class 514, subclass 44. A further sequence election identified below is also required if this group is elected.
- III. Claim 15, drawn to a method of selectively detecting gene expression of at least one gene, classified in class 436, subclass 6. A further sequence election identified below is also required if this group is elected.

The inventions are distinct, each from the other because of the following reasons:

Group I and Groups II and III are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially

Art Unit: 1631

different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). Group I is drawn to a nucleic acid product that is a bioinformatically detectable novel gene including vectors and probes thereof. Group II and III are drawn to methods of using the nucleic acid product of Group I. Group II is drawn to and reads on a method of treatment and requires inhibition of at least one gene in a cell. Group III is drawn to an assay method of detecting gene expression. In the instant case, the product as claimed can be used in a materially different process of using that product. In regards to groups I and II, the product may be used in a method of hybridization, to detect gene expression. In regards to groups I and III, the product may be used in a method of inhibiting gene expression by inhibiting translation.

Furthermore, search and examination of Group I with either of Groups II or III would impose a serious and undue burden. In the instant case, prior art searches of methods of treatment (or of methods of inhibiting gene expression in vitro) and of methods of detecting gene expression would not be coextensive with a prior art search of the claimed compound(s). Search of each of these inventions would require different key word searches of each method that would necessarily include a search for the distinctive method steps of each that would be different for each and that would not be required in a search of the compound(s). These searches would have to be performed using divergent patent and non-patent literature databases. The different searches would then require subsequent in-depth analysis of the unrelated prior art literature, placing a serious and undue burden on the Office in terms of both search and

Art Unit: 1631

examination. As such, it would be burdensome to perform search and examination of Group I with either of Groups II or III.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance. whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312. In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable. the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996).

Art Unit: 1631

Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Sequence Election Requirement for All Groups

In addition to the above restriction requirement, all the groups in the instant application read on patentably distinct sequences. Each sequence is patentably distinct because they are unrelated sequences. For each sequences, the Applicants must elect a single sequence (See MPEP 803.04). It is noted that the multitude of sequence submissions of examination has resulted in an undue search burden if more than one sequence is elected. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 36 CFR 1.141 et seq. Examination will be restricted to only the elected sequence. It is additionally noted that this sequence election requirement is a restriction requirement and not a specie election requirement.

Art Unit: 1631

Species Election regarding Target Genes in Group I

Claims 1-10, 13, 14, and 16 (Group I) are generic to the following disclosed patentably distinct species of target genes. The species (target gene sequences) are independent or distinct because the sequences are unrelated. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species (a single target gene that must be the target of the elected gene), even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not

Art Unit: 1631

distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Page 8

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Conclusion

Page 9

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric S. DeJong whose telephone number is (571) 272-6099. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, Ph.D. can be reached on (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight

Art Unit: 1631

(EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file

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folder(s) as well as general patent information available to the public.

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JOHN S. BRUSCA, PH.D PRIMARY EXAMINER

S. Buns Much 2006.

Page 10